Both-surface light output type back lighting part for LCD

Publication number: CN1356584
Publication date: 2002-07-03
Inventor: BYONG-YONG LEE (KR)
Applicant: HYUNDAI DISPLAY SCIENCE & TECH (KR)
Classification:
- International: *G02B6/00; F21V8/00; G02F1/1333; G02F1/1335; G02F1/13357; G09F9/00; G09F9/35; G09F9/40; F21Y103/00;* G02B6/00; F21V8/00; G02F1/13; G09F9/00; G09F9/35; G09F9/40; (IPC1-7): G02F1/13357; G02B5/02
- European: G02F1/13357E
Application number: CN20011045180 20011125
Priority number(s): KR20000070703 20001125

Also published as:
US2002064037 (A1)
KR20020040989 (A)
JP2002258284 (A)
CN1184515C (C)

Report a data error here

Abstract not available for CN1356584
Abstract of corresponding document: **US2002064037**

A backlight unit capable of producing a bi-directional surface light while using a single light guide plate without a conventional reflecting plate is disclosed. The backlight unit of bi-directional irradiation, used for upper and lower liquid crystal display (LCD) panels, has at least one fluorescent lamp accommodated in a mold frame to generate light, and at least one lamp reflector surrounding the fluorescent lamp to reflect the light generated from the fluorescent lamp. The backlight unit further has a single light guide plate, which is disposed between the upper and lower LCD panels and near the fluorescent lamp, which has hole patterns formed on a central horizontal plane thereof, and in which the hole patterns produce a bi-directional surface light in upward and downward directions by scattering the light reflected from the lamp reflector. In addition, the backlight unit has upper and lower diffusion plates each disposed between the light guide plate and each LCD panel to uniformalize the bi-directional surface light produced from the light guide plate.